

Crop Breeding - Conventional Breeding

Key Terms and Concepts

Upon completion of this course, the student should be familiar with the following terms, concepts, and programs.

Genetics

Genetics

Heredity

Genetic diversity

Genetic erosion

Genetic vulnerability

Adaptation

Natural Selection

Phenotypic variation

Genotypic variation

Genes

Alleles

Chromosomes

Mitosis

Meiosis

Mutation

Ploidy

Plant reproduction

Dioecious plants

Monoecious plants

Self pollination (autogamy)

Cleistogamy

Cross pollination (allogamy / open pollination)

Self incompatibility

Plant breeding

Conventional plant breeding

Centers of origin of agriculture

Domestication
Directed selection
Land races
Mass selection
Pure line selection
Synthetic varieties
Pure breeding lines
Hybridization
Homozygous
Heterozygous
Emasculation
Cytoplasmic male sterility
Hybrid vigor (Heterosis)
Inbreeding depression
Clone
Green Revolution